

STORM WATER POLLUTION PREVENTION PLAN
14TH AVENUE NORTH LLC.
806 16TH AVENUE NORTH
NASHVILLE, TN DAVIDSON COUNTY

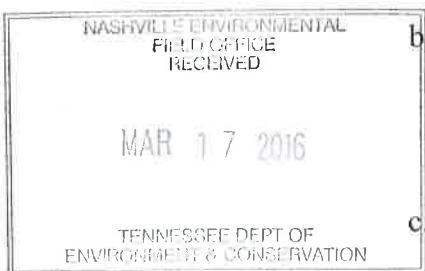
A. SITE DESCRIPTION

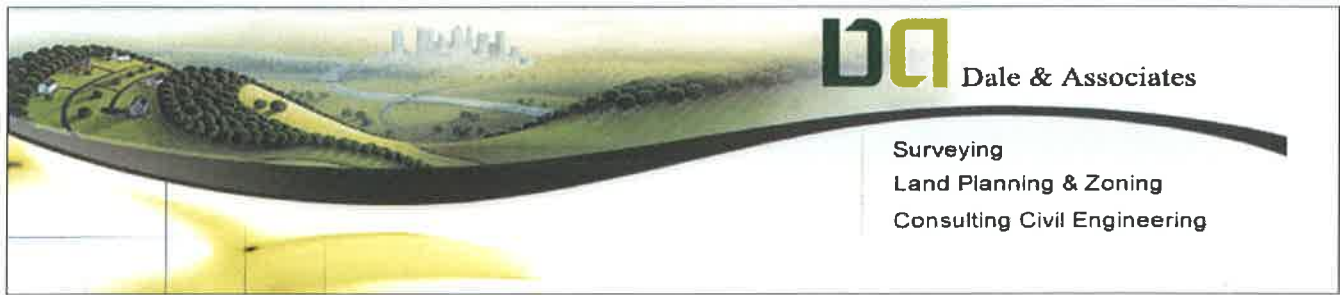
1. Geographically, the subject site is located between 14th and 16th Avenue North, in Nashville, Tennessee, West of I-40, and is also known as Parcels 318 on Metro Tax Map 92-04. The proposed industrial lot is located on a parcel totaling 2.70 acres. The purpose of this Storm Water Pollution Prevention Plan and Notice of Intent is to obtain permitting to grade this development, which will disturb approximately 2.61 acres of that parcel.

All erosion prevention measures have been designed to handle the runoff associated with a 5-year 24 hour storm event for the Nashville, TN area (approximately 4.5”).

This SWPPP is to remain on site during all construction activities and located within the construction trailer or near the construction entrance with the NOC display board/mailbox.

- a. The construction of this site and Notice of Intent is for an industrial recycling center required infrastructure. The storm water systems have been designed to meet all State and Local requirements.
- b. The sequence of major activities that will entail the disturbance of soils within the site include the following in this order: installation of all erosion control measures, mass grading, install sewer, storm, and water infrastructure, paving, and final stabilization. Please see Section 2 for a more detailed sequence of events for infrastructure.
- c. The existing topography within this site is sloping to a single outfall, ranging from 1-2%. Any proposed grading that results in a 3:1 slope is to be stabilized using erosion control matting, as shown on the plans attached to this SWPPP.
- d. A copy of the NRCS Soil Survey maps for this area was utilized to determine the soil types of hydrologic groups to be a class “A”.
- e. The Curve Number (CN) for this phase after construction is complete will be approximately 81.
- f. Please refer to Sheets C1.0 thru C2.0 for erosion prevention and sediment control measures proposed. Sheet C3.0 outlines the proposed grading activities, in which the area to be disturbed is shown by solid contours, and





the dashed and/or shaded contours represent existing ground and areas to remain undisturbed.

- g. There will be no discharge associated with industrial activity other than construction storm water that originates on site as permitted.
- h. The receiving water for this site is a tributary of the Cumberland River.
- i. There will be no other uses applied to this permit.
- j. The limits of coverage being compiled into this individual SWPPP are shown on the attached exhibits.

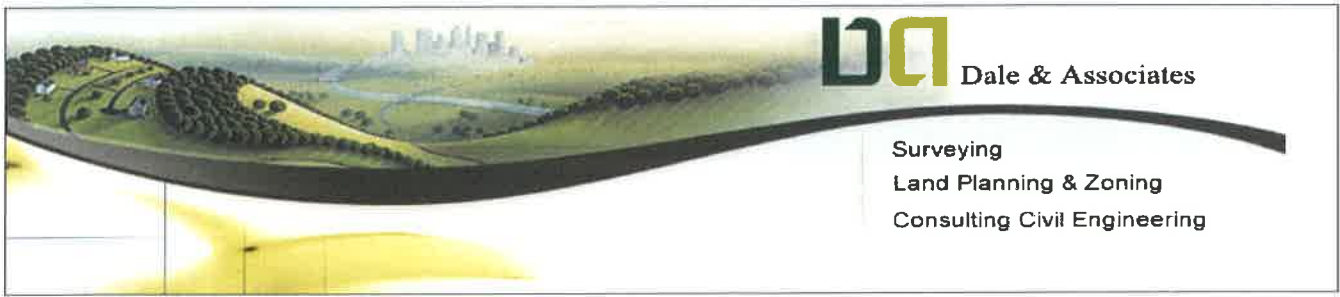
2. Construction shall proceed in the following manner:

Infrastructure

- a. Install stabilized construction entrance.
- b. Prepare temporary parking and storage area.
- c. Construct the silt fences, erosion eels (revise as construction progresses).
- d. Clear, grub and grade the site.
- e. Temporarily seed denuded areas.
- f. Prepare site for paving and install utilities.
- g. Install storm drainage and pave site
- h. Construct sidewalk and drive entrances
- i. Complete final grading and install permanent seeding or sod.
- j. Remove all temporary erosion and sediment control devices (only if site is stabilized). The site is stabilized when all soil-disturbing activities are completed and a uniform perennial vegetative cover with a density of 70% of the cover for unpaved areas and areas not covered by permanent structures has been employed.

Note: The contractor shall be responsible for implementing, restoring, and/or revising the temporary sediment and erosion control measures (silt fences, straw bale barriers, temporary diversion dikes, etc.) as necessary during construction to help prevent soil erosion and storm water pollution

- 3. The attached plans for Erosion Control associated with this development should be utilized in conjunction with this Storm Water Pollution Prevention Plan. All drainage patterns, areas of soil disturbance, structural controls, and nonstructural controls will be shown therein. All measures shown on the Initial Erosion Control Plan shall be in place and inspected prior to the issuance of the grading permit.
- 4. The stormwater runoff for this site will be directed into bioretention basins. Then be collected into the existing stormwater pipe system in the existing roads.



B. CONTROLS

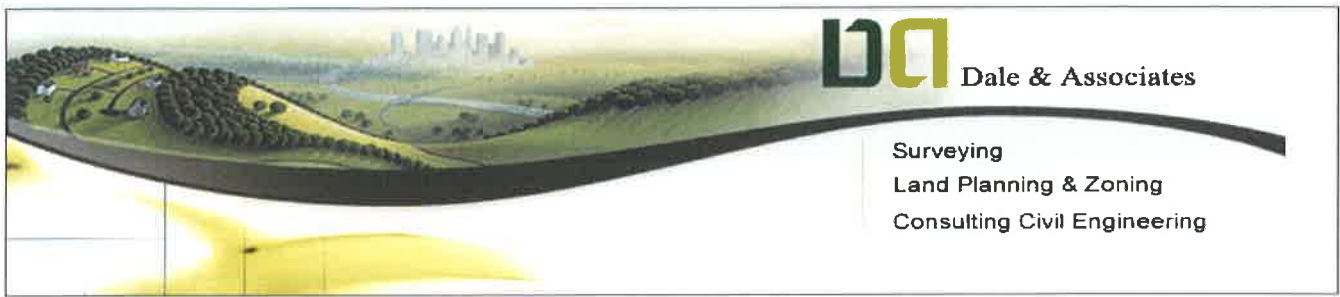
1. Erosion and Sediment Controls

a. *Stabilization Practices.* The vegetation within the scope of the project site development will be removed with the exception of those trees designated to remain or be replanted. The areas in which no disturbance shall be allowed are shown on the Grading and Erosion Control Plan. When deficient soil is encountered, soil undercutting will be required in those areas as recommended by the geotechnical report.

1. Where the initiation of stabilization measures by the 14th day after the construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.
2. Where construction activity will resume on a portion of the site within 21 days from when activities ceased, then stabilization measures do not have to be initiated on that portion of the site by the 14th day after construction activity temporarily ceased.
3. Runoff from the topsoil storage areas within the scope of this project shall be directed to the proposed sediment basins via diversion swales. Temporary seeding will be required in those areas that consist of disturbed soils that have remained dormant for periods of more than 21 days.

b. *Structural Practices.*

1. *Silt Fence.* Silt fences shall be placed and “constructed in accordance with the Erosion Control Plans, see attached sheet.
2. *Ditch Check Dams.* Ditch check dams shall be placed and constructed in accordance with the Erosion Control Plans, see attached sheet.
3. *Inlet Protection.* Inlet sediment barriers shall be installed at storm water inlets in accordance with the Erosion Control Plans, see attached sheet. These inlet protection devices shall be implemented as soon as the storm water inlets are constructed.



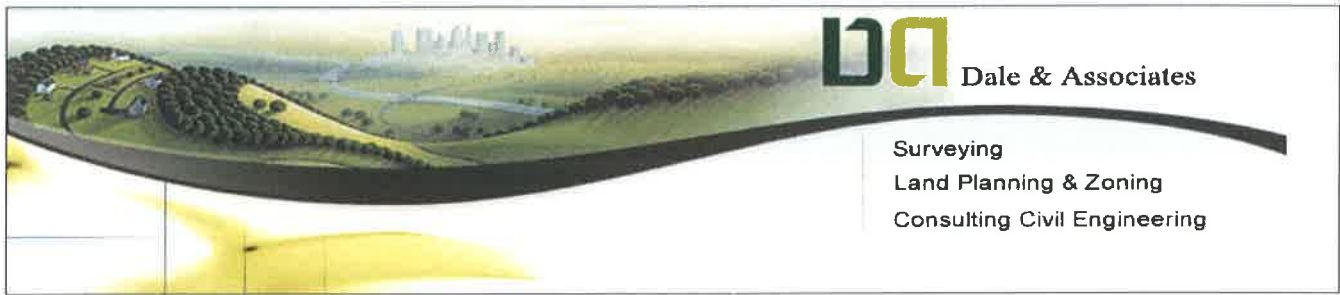
4. *Construction Entrance.* Construction entrances should be placed and constructed in accordance with Erosion Control Plans. See attached Erosion Control Plan.

2. Storm Water Management

- a. Off-site runoff basically continues to flow in its pre-developed state via natural contour. Silt fences have been placed to accommodate runoff associated with a 5-year 24 hour storm event for the Nashville, TN area (approximately 4.5").
- b. Soil Stabilization will be accomplished by the use of seeding in the appropriate areas, as specified. Temporary seeding will be required in those areas that consist of disturbed soils that have remained dormant for periods of more than 21 days.
As a general rule, permanent seeding will be performed within 14 days after the final grade on an area has been established. If disturbed areas on-site are to remain dormant for periods greater than six months in duration, the contractor will apply permanent soil stabilization. An allowance in the time schedule will be made for snow cover during periods of construction downtime. Seeding will be performed by hydro-seeding, by hand, or by a mechanical broadcasting method
- c. The areas to be seeded will be uniform and will conform to the finished grade and cross Section shown in the plans for this project or as otherwise designated. Owner's representative will perform minor shaping of uneven and rough areas outside the graded section as directed in order to provide for more effective erosion control and for ease of subsequent earth moving operations.
- d. The seed bed (including cut slopes) will be loosened to a minimum depth of 3 inches before agricultural lime, fertilizer or seed is applied. The areas to be seeded will be cleared of stones larger than 2.5 inches in dimension, roots, and other debris.

3. Other Controls

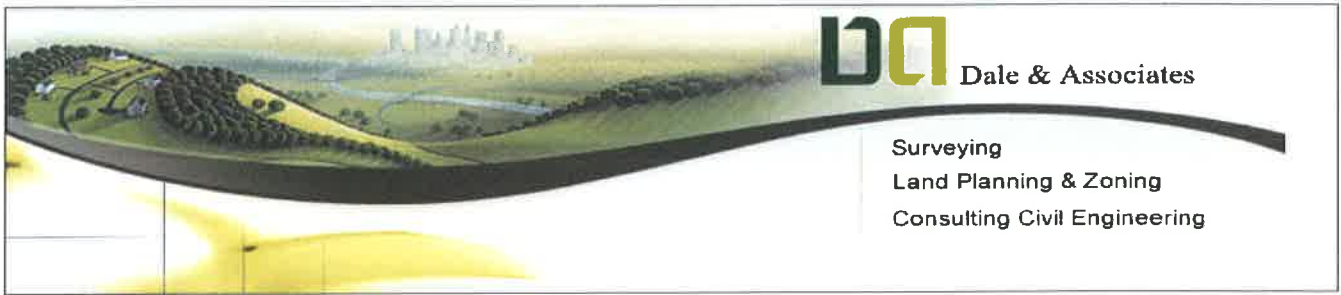
- a. All contractors and subcontractors affiliated with the construction project shall abide by federal, state (Tennessee), and local (Davidson County) requirements for construction, waste disposal, sanitary sewer, and septic system regulations.



- b. Providing a construction entrance as detailed on the Erosion Control Plan shall minimize off-site vehicle tracking of sediments. No access for construction ingress or egress shall be allowed except for the construction entrance shown on the Erosion Control Plan.
- c. *Temporary Parking and Storage.* The temporary parking and storage areas shall be located as determined by developer's construction manager. The temporary parking and storage area shall also be used as the equipment maintenance area, equipment cleaning area, employee break area and area for locating portable facilities, office trailers and toilet facilities.
- d. *Dust Control.* Dust control on the site shall be minimized by sprinkling water on dry areas of the site. The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited.
- e. *Construction Waste.* All construction waste and trash (paper, plastic, wood, scrap metals, rubber, etc.) shall be collected and stored in containers with lids or covers that can be placed over the containers prior to rainfall. This waste shall be disposed of according to state and local solid waste management regulations.
- f. *Hazardous Waste.* All hazardous waste (paints, acids for cleaning masonry surfaces, cleaning solvents, concrete curing compounds and additives, etc.) shall be disposed of according to local, state and federal regulations.
- g. *Sanitary Waste.* Sanitary waste that is generated on the site shall be disposed of in accordance with local and state regulations.
- h. *Concrete Truck Waste.* Excess concrete and wash water shall be disposed of in a manner that prevents contact between these materials and storm water that is discharged from the site.
- i. *Vehicle and Equipment Cleaning.* Wash water generated from vehicle and equipment cleaning shall be disposed of in a manner that prevents contact between these materials and storm water that is discharged from the site.

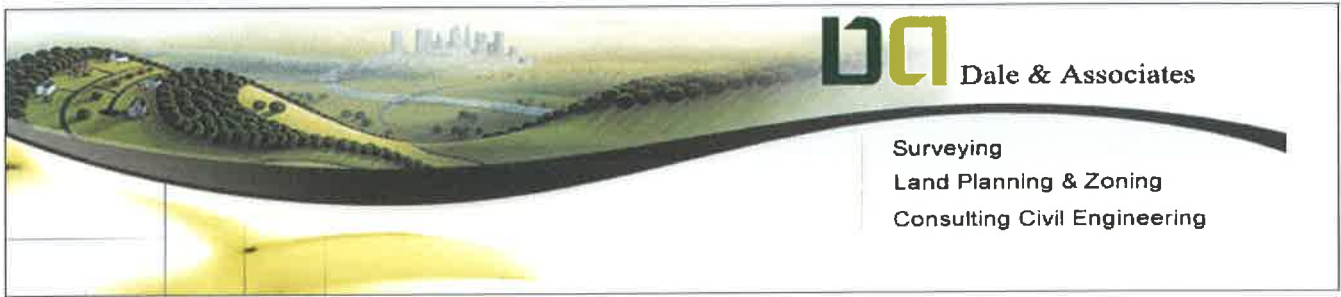
C. MAINTENANCE

- 1. All measures stated in this Storm Water Pollution Prevention Plan and on the Erosion Control Plans for the prevention of storm water pollution and erosion control shall be maintained in a fully functional condition until the final stabilization



of the site. All erosion and sedimentation control measures shall be cleaned and repaired in accordance with the following, see attached sheets for construction details.

- a. The erosion eels shall be fixed or replaced if they show signs of undermining or deterioration.
- b. All seeded areas shall be checked regularly to see that a good stand of grass is maintained. Areas should be reseeded and fertilized as needed to provide a good stand of grass for erosion control.
- c. Silt fences shall be repaired to their original conditions if damaged. Sediment shall be removed from the silt fences when it reaches one-third to one-half the height of the silt fence.
- d. The construction entrances shall be maintained in a condition, which will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing as conditions demand.
- e. The temporary parking and storage area shall be kept in good condition, suitable for parking and storage. This may require periodic top dressing as conditions demand.

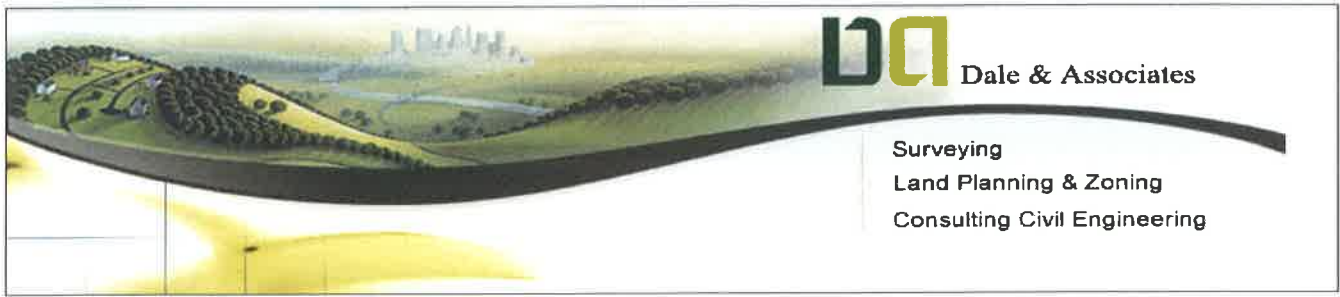


D. MATERIAL MANAGEMENT

1. *Petroleum Products:* All on-site vehicles shall be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products (oils, gasoline, lubricants, asphalt substances, etc.) shall be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used on-site will be applied according to the manufacturer's recommendations.
2. *Paints:* All containers shall be tightly sealed and stored when not required for use. Excess paint shall not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and local requirements.
3. *Fertilizers:* Fertilizers used shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil (4 to 6 inches) to limit exposure to storm water. Fertilizers shall be stored in a covered area.
4. *Hazardous Products:* Products shall be kept in original containers unless they are not resealable. Original labels and material safety data shall be retained (the labels contain important product information). If surplus products must be disposed of, local, state and federal requirements shall be followed.

E. SPILL CONTROL PRACTICES

1. Materials shall be tightly sealed in containers that are clearly labeled and shall be neatly and securely stacked.
2. Materials and equipment necessary for spill cleanups shall be kept in the material storage area on-site.
3. All spills shall be cleaned up immediately after discovery.
4. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
5. Spills of toxic hazardous materials shall be reported to the appropriate local, state, and federal government agencies as soon as possible, regardless of the size.
6. Contaminated materials shall be disposed of according to local, state, and federal requirements.
7. One person shall be selected to be the spill prevention and cleanup coordinator.



8. The designated field supervisor will contact the appropriate authorities for notification of a spill related incident. The following list are the authorities as related to this project:

Developer: Reed Lewis,
(612) 282-1232

Tennessee Dept. of
Environment and Conservation (615) 532-0625

EPA National Response Center 800-424-8802

Tennessee Emergency
Management Agency 800-262-3300
Non-emergencies 800-262-3400

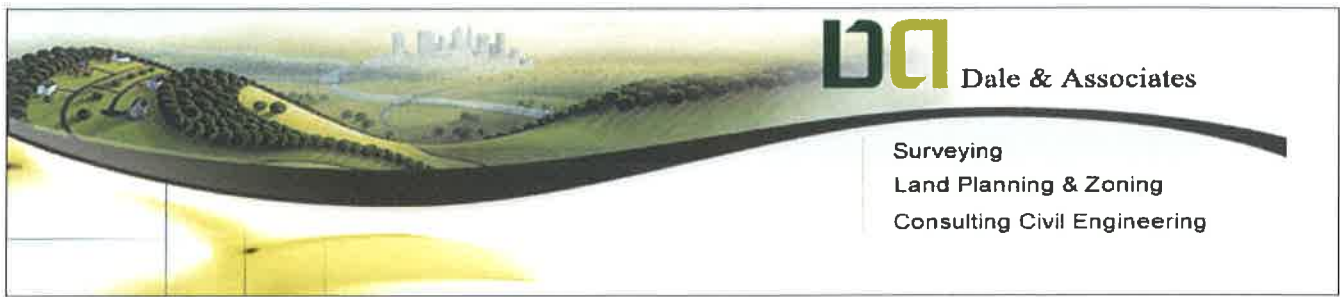
Spill of toxic, hazardous, or petroleum-based materials shall be reported immediately to TDEC and the local Fire Department.

The Developer or his designee will maintain a map outlining the route to the hospital in case of a spill related injury. This map will be posted at each on-site office trailer. A first aid kit will also be maintained at the office trailer located on the project site. The Contractor will be responsible for ensuring that the kit is complete at all times.

The Developer and his Contractor shall follow the reporting guidelines stated in the state guidelines, if the spill consists of a hazardous or oily substance. Reporting will be in accordance to the provisions stated under 40 CFR Parts 110, 117 and 302.

F. **GOOD HOUSEKEEPING**

1. The following good housekeeping practices shall be followed on-site during the construction project.
 - a. Neat and orderly storage of any chemicals, fertilizers, fuels, etc., that are being stored on the site.
 - b. Regular garbage, rubbish, construction waste and sanitary waste disposal.
 - c. Prompt cleanup of any spills that have occurred.



- d. Cleanup of sediment that has been deposited off of the site by vehicle tracking, wind, and storm water.

G. INSPECTIONS

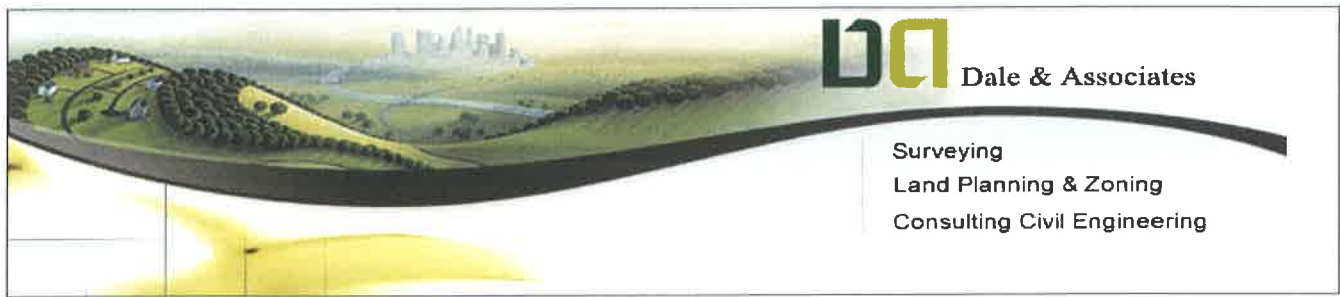
1. Qualified personnel (provided by the contractor) shall inspect all erosion, sedimentation and storm water pollution devices stated in this Storm Water Pollution Prevention Plan and on the Erosion Control Plans at least twice every seven calendar days. Disturbed areas and areas used for material storage that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage systems. Erosion and sediment control measures identified in the Storm Water Pollution Prevention Plan and the Erosion Control Plans shall be observed to ensure that they are operating correctly. Discharge locations shall be inspected to ascertain whether the erosion and sedimentation control measures are effective in preventing significant impacts to receiving waters.

Based on the results of the inspections, the erosion and sedimentation control measures shall be revised or modified as appropriate, but in no case shall it take more than seven calendar days following the inspection to revise or modify the erosion and sediment control measures.

H. NON-STORM WATER DISCHARGES

1. Anticipated non-storm water discharges on the construction site may include the following:
 - a. *Waterline flushing from the newly installed waterlines.* Silt fences shall be used to collect sediment from water that is flushed from new waterlines.
 - b. *Discharge from firefighting activities.* Any materials from fire fighting activities that may pollute the storm water shall be disposed of in a proper manner.
 - c. *Water Discharge from dust control.* Silt fences shall be used to collect sediment from discharge waters associated with dust control.

I. APPROVED STATE OR LOCAL PLANS



1. To the best knowledge of all parties involved with implementation of this Storm Water Pollution Prevention Plan, all measures and consideration specified in this plan meet the requirements of the Tennessee Department of Environment & Conservation NPDES permit TNR10-0000 and Davidson County.

This Plan was prepared in accordance with the Tennessee Dept. of Environment & Conservation NPDES Permit No. TNR10-0000 and the EPA Storm Water Management for Construction Activities.

J. SIGNATURE REQUIREMENTS

1. All reports and certifications shall be signed in accordance with part IV.B of the NPDES Permit TNR10-0000.

K. Tennessee Dept. of Env. & Conservation NPDES STORM WATER PERMIT TNR10-0000

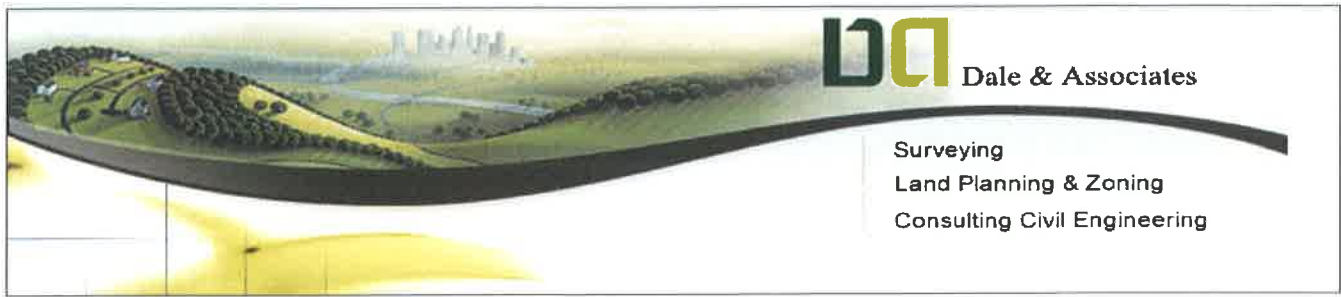
1. The Tennessee Dept. of Environment & Conservation NPDES Storm Water Permit TNR10-0000, Appendix F, is considered part of this Storm Water Pollution Prevention Plan and shall be used as a reference and a guide to insure that all requirements, conditions, limitations and responsibilities are met.

L. CONTRACTOR ASSIGNMENT

1. This plan will be modified to include the assignment of contractors and subcontractors to specific measures that are outlined herein.
2. All contractors and subcontractors will be required to sign a copy of the following certification statement before conducting any professional service at the site identified in this plan:

“I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification.”

The preceding contractor / subcontractor certification must include the name and title of the person providing the signature; the name; address and telephone numbers of the contracting firm; the address; (or other identifying description) of the site; and the date the certification is made. Any signature affixed to this plan, or related documents, must



be accompanied by the proper certification. The preceding contractor / subcontractor certification is part of permit number TNR10-0000, and is included as a part of this Storm Water Pollution Prevention Plan to serve as record only.

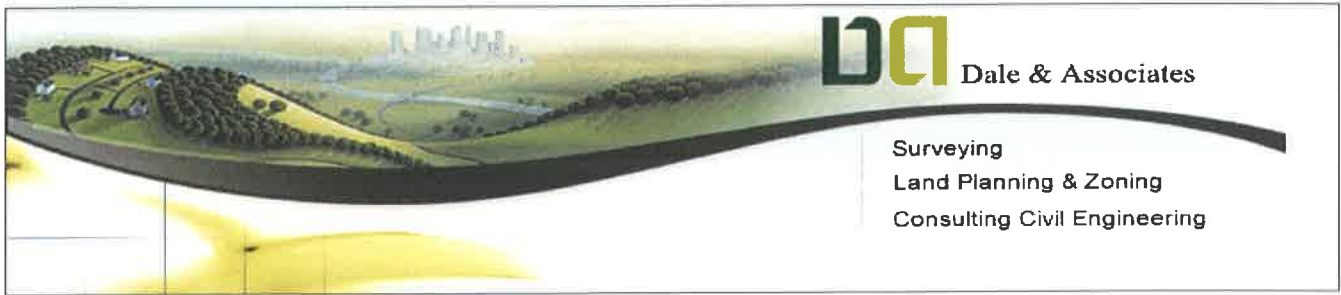
M. **SIGNATORY REQUIREMENTS**

The Signatory Requirements for all documents related to the permit number TNR10-0000 are as follows:

All Notices of Intent, Storm Water Pollution Prevention Plans, certifications or information either submitted to the Tennessee Dept. of Environment & Conservation or the operator of a large or medium municipal separate storm sewer system, or that this permit requires to be maintained by the permittee, shall be signed in accordance with the following:

Identity of signatories of operation permits applications. The person who signs the application for an operation permit shall be:

1. *Corporations.* In the case of a corporation, a responsible corporate officer, which is one of the following:
 - a. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - b. The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million, if authority to sign documents has been assigned or delegated to the management in accordance with corporate procedures.
2. *Partnerships.* In the case of a sole partnership, a general partner.
3. *Sole proprietorships.* In the case of a sole proprietorship, the proprietor.
4. *Public Facilities.* In the case of a municipal, state, or other public facility, by either the principal executive officer, or the ranking elected official. A principal executive officer of a Federal Agency includes:
 - a. The chief executive officer of the agency; or
 - b. A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.



5. *Storm water discharge associated with industrial activity from construction activity.* In the case of a storm water discharge associated with industrial activity from construction, either the owner of the site or general contractor.

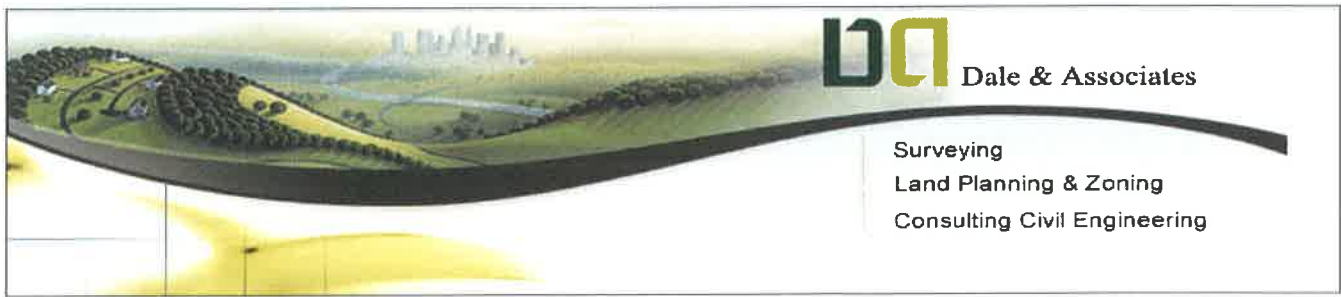
The person who signs the NPDES reports shall be the same, except that in the case of a corporation, or a public body, monitoring reports required under the terms of the permit may be submitted by the person who is responsible for the overall operation of the facility from which the discharge originated. The preceding signatory requirements are a part of permit number TNR10-000, and are included as part of this Storm Water Pollution Prevention Plan to serve as record only.

N. **AUTHORIZATION**

All reports required by the permit and other information requested by the Director of the Tennessee Dept. of Environment & Conservation shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above and submitted to the Director;
2. The authorization specifies either an individual or a person having responsibility for the overall operation on the regulated facility or activity, such as the position of plant manager, operator of a well or well field, superintendent, or position or equivalent responsibility, or position or equivalent responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
3. Changes to Authorization. If an authorization under this part is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the above requirement must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

The preceding authorization requirements are a part of permit number TNR10-0000, and are included as a part of this Storm Water Pollution Prevention Plan to serve as a record only.



O. SIGNATURE CERTIFICATION

1. *Certification.* Any person signing documents shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the systems, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for violations.”

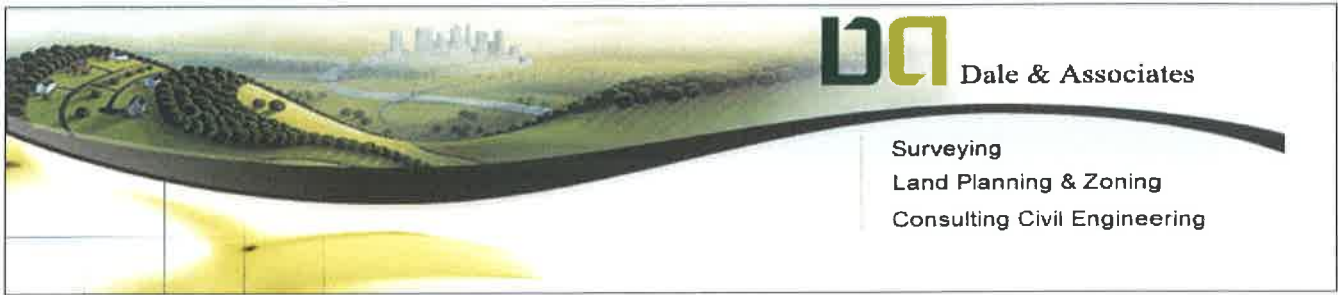
The preceding signature certification is a part of permit number TNR10-0000, and is included as part of this Storm Water Pollution Prevention Plan to serve as record only. Any signature affixed to this plan or related documents must be accompanied by the proper certification.

P. NOTICE OF TERMINATION

1. After final stabilization at the construction site, the contractor shall submit a Notice of Termination to the Department. This notice shall include the name of the owner that was issued the permit, and the general permit number. This notice shall also be accompanied by the following certification:

“I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated. I understand that by submitting this Notice of Termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants from storm water associated with industrial activity to waters of the State is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit.”

The preceding Notice of Termination certification is a part of permit number TNR10-0000 and is included as a part of this Storm Water Pollution Prevention Plan to serve as record only. Any signature affixed to this plan or related documents must be accompanied by the proper certification.

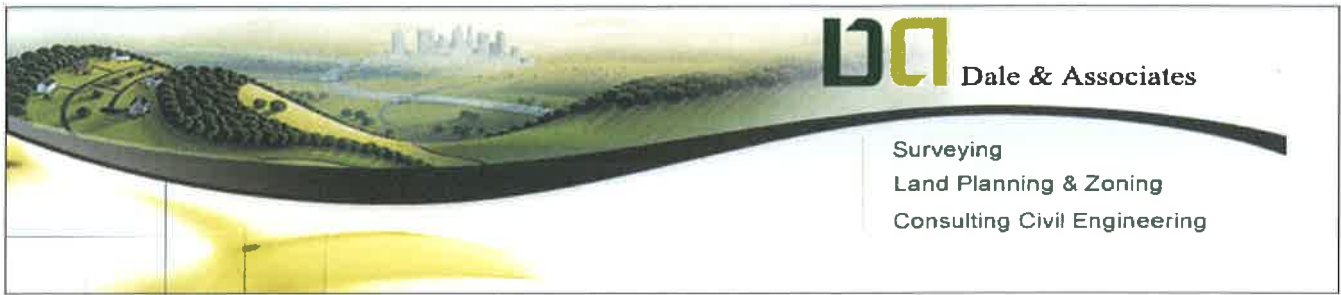


Q. SITE ASSESSMENT

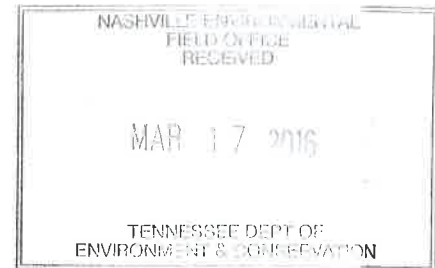
A Site Assessment shall be performed to verify the installation, functionality, and performance of the EPSC measures as described. The site assessment shall be performed with the inspector and include a review of the SWPPP. If necessary the SWPPP shall be revised or updated. All assessment shall be documented and kept with the SWPPP at the site. The Twice Weekly Inspection Report form information shall be included in the documentation with the site assessment. The documentation shall contain the printed name and signature of the person performing the site assessment as well as the following certification:

“I certify under penalty of law that this report and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

The site assessment must be performed by a licensed professional engineer or landscape architect, a Certified Professional in Erosion and Sediment Control (CPESC), or a person that successfully completed the “Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites” course.




STORM WATER POLLUTION PREVENTION PLAN
Atomic Recycling

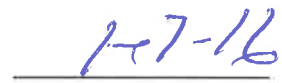


REPRESENTATIVE OF OWNER/DEVELOPER

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Sign


Print


Date

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling the Notice of Intent, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements.

Sign

Print

Date

